

SST and AST

Self-sealing heat-shrinkable tubing

Fax-on-Demand: (800) 260-9099
(650) 361-6523

FAX ID Description
2290 Data sheet

Before ordering check with
factory for most current data.



Applications

SST and AST provide a simple, positive splice-sealing method that offers protection under adverse environmental conditions. Tubing supplied with standard sealant provides water sealing and environmental protection in wet or underground applications. The thermoplastic adhesive not only seals, but also provides mechanical strain relief. The polymer tubing has excellent insulating, abrasion-resisting, and strain-relief properties.



Features/Benefits

- Strain relief.
- Waterproofing.
- Thick-wall insulation and abrasion-protection.
- No need for greases, tape, or epoxy.
- Expansion ratios as high as 3:1.
- Availability in flame-retardant material.
- AST-FR has the following agency approvals:
 - ABS (American Bureau of Shipping)
 - DNV (Det Norske Veritas)
 - Lloyd's (Lloyd's Register of Shipping)

Installation

Minimum shrink temperature: 90°C
Minimum full recovery temperature: 121°C

Specifications/Approvals

Series	UL 	CSA 	Military	Industry	Raychem
SST					Nemosyne 90
SST-FR			MIL-DTL-23053/15A*, Class 1 and Class 2	ASTM D 685, nonburning ASTM D 2863, oxygen index IPCEA S-19-81, cable insulation and jackets IEEE-383 Section 2.5 massive flame vertical tray	Nemosyne FR
AST-FR				ABS, DNV, Lloyd's Register	RW 2017
AST					RW 2011

*Formerly MIL-I-23053/15A.

Product Dimensions (inches)

Mil-Spec approved part number†	Agency approved part number	Standard nominal length	Internal diameter		Wall thickness (nominal)		Recommended cable range for 600-volt cable
			Minimum expanded	Maximum recovered	Expanded	Recovered††	
SST*-03	AST 8/3	6	0.300	.100	.025	.060	#18 through #14 AWG
SST*-04	AST 10/4	6	0.400	.150	.025	.060	#14 through #10 AWG
SST*-07M	AST 19/6(M)	6, 9, 12	0.750	.220	.020	.060	#8 through #1 AWG
SST*-07	AST 19/6	6, 9, 12	0.750	.220	.030	.095	#8 through #1 AWG
SST*-11M		6, 9, 12	1.100	.375	.030	.105	#2 through #4/0 AWG
SST*-11		6, 9, 12	1.100	.375	.040	.120	#2 through #4/0 AWG
SST*-13M	AST 33/10(M)	6, 9, 12	1.300	.375	.025	.105	#2 through #4/0 AWG
SST*-13	AST 33/10	6, 9, 12	1.300	.375	.035	.120	#2 through #4/0 AWG
SST*-15M		6, 9, 12	1.500	.500	.035	.120	#2/0 AWG through 500 MCM
SST*-15		6, 9, 12	1.500	.500	.050	.140	#2/0 AWG through 500 MCM
SST*-17M	AST 43/13(M)	6, 9, 12	1.700	.500	.030	.120	#2/0 AWG through 500 MCM
SST*-17	AST 43/13	6, 9, 12	1.700	.500	.045	.140	#2/0 AWG through 500 MCM
SST*-20M	AST 51/19(M)	6, 9, 12	2.000	.750	.040	.120	#350 MCM through 1000 MCM
SST*-20	AST 51/19	6, 9, 12	2.000	.750	.050	.155	#350 MCM through 1000 MCM
SST*-27	AST 69/23	12, 18, 24	2.700	.900	.050	.155	#500 MCM through 1250 MCM
SST*-30	AST 76/32	12, 18, 24	3.000	1.250	.050	.155	#900 MCM through 1500 MCM
SST*-40		12, 18, 24	4.000	1.750	.050	.155	#1500 MCM through 2500 MCM
SST*-45	AST 114/45	12, 18, 24	4.500	1.750	.050	.155	#1500 MCM through 2500 MCM

†In place of asterisk* substitute length of tubing to be ordered. For example, SST*-11, as the third column indicates, comes in 6-, 9-, and 12-inch lengths, so 9-inch SST tubing would be SST 9-11. The suffix M = medium-wall tubing.

††Wall thickness will be less if tubing recovery is restricted during shrinkage.

Ordering Information

Color	Standard	Black (-0)
Size selection	Always order the largest size that will shrink snugly over the component to be covered. Special order sizes are available upon request.	
Standard packaging	See Product Dimensions table.	
Ordering description	Specify product name, size, and color (for example, SRFR 10/6-8).	
Adhesive sealant	Standard	All lengths supplied with continuous coating.
	Nonstandard	Lengths can be ordered with coating on ends only.

Part Numbering System

Mil-Spec Approved Part Numbers

Standard thick-wall, standard sealant, non-flame-retardant: No suffix added. (Does not meet Mil-Spec.)

SST 6-11
 Size (expanded I.D. in inches and/or tenths of an inch)
 Length in inches

Standard thick-wall, thermoplastic adhesive, non-flame-retardant: Add suffix /97. (Does not meet Mil-Spec.)

SST 6-11 /97
 Thermoplastic adhesive

Flame-retardant* thick-wall with thermoplastic adhesive: Add suffix FR.

SST 6-11 FR
 Flame-retardant material (not available in clear)

*Flame-retardant tubing will be supplied with thermoplastic adhesive unless specified differently upon order.

Agency Approved Part Numbers

AST 33/10 (M) 030 /97 -0

Color
 0 = Black (standard color)
 Other colors available on special order:
 2 = Red 9 = White X = Clear*
 *AST-FR is not available in clear.

Precoat adhesive/sealant options
 /97 = Hot-melt adhesive (standard)
 /226 = Mastic sealant

Standard length options
 015 = 150 mm (6 inches) 030 = 300 mm (12 inches)
 045 = 450 mm (18 inches) 060 = 600 mm (24 inches)

Medium-wall tubing (option)

Size (nominal expanded and recovered internal diameter)

Product Description
 AST = Adhesive sealing tubing
 AST-FR = Adhesive sealing tubing, flame-retardant